



Science Toolkit: Grade 5 Objective 2.A.3.a

Student Handout: Science: Grade 5 Objective 2.A.3.a

Standard 2.0 Earth/Space Science

Topic A. Materials and Processes That Shape A Planet

Indicator 3. Explain how rock is formed from combinations of different minerals and that smaller rocks come from the breakage and weathering of bedrock (solid rock underlying soil components) and larger rocks; soil is made partly from weathered rock, partly from plant remains-and also contains many living organisms.

Objective a. Observe and classify a collection of minerals based on their physical properties.

Color

Luster

Hardness

Streak

Selected Response (SR) Item

Question

A student had a mineral sample that was gray in color and had a hardness of 6. The mineral made a white streak when scraped on a ceramic plate.

Color	Hardness	Streak	Mineral
Gray, black, or reddish brown	6	Red	Hematite
Black	6	Black	Magnetite
Red, reddish brown, brown, or black	6.5-7.5	White	Garnet
Gray or white	6-6.5	White	Feldspar

According to the table above, the mineral sample was most likely

- A. hematite
- B. magnetite
- C. garnet
- D. feldspar

Correct Answer

D. feldspar

Question

A student had a mineral sample that was gray in color and had a hardness of 6. The mineral made a white streak when scraped on a ceramic plate.

Color	Hardness	Streak	Mineral
Gray, black, or reddish brown	6	Red	Hematite
Black	6	Black	Magnetite
Red, reddish brown, brown, or black	6.5-7.5	White	Garnet
Gray or white	6-6.5	White	Feldspar

According to the table above, the mineral sample was most likely

- A. hematite
- B. magnetite
- C. garnet
- D. feldspar